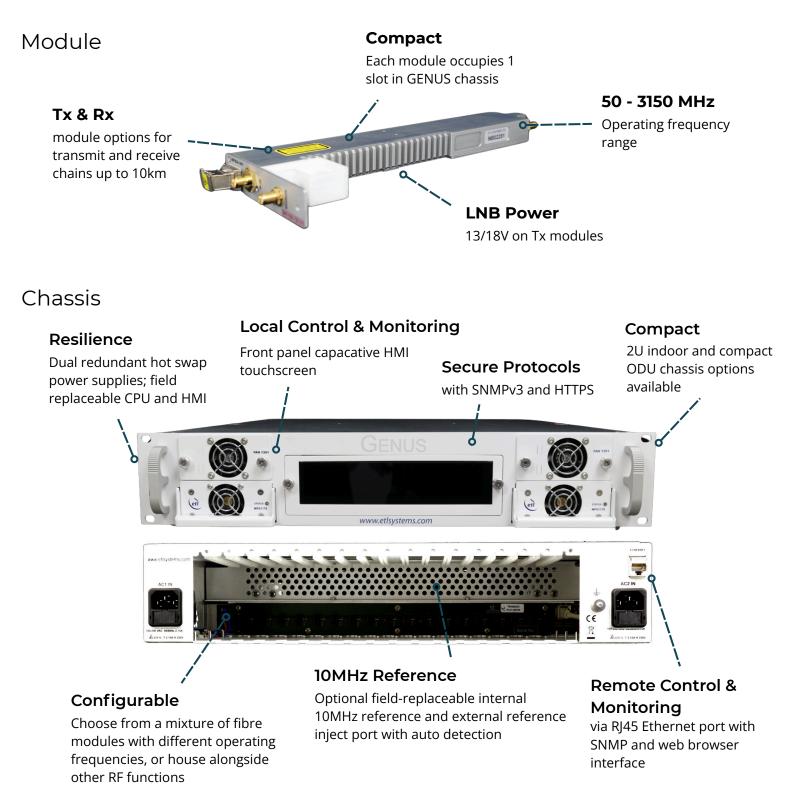


Broadband GENUS StingRay RF over Fibre Module

with 22KHz tone and 13V/18V switchable LNB power

StingRay Broadband Transmit and Receive RF Over Fibre modules to fit Genus 2U chassis. The transmit module can provide LNB power 13/18VDC, 22kHz tone up to 500 mA. When fitted with a 10 MHz distributing module the TX/RX module can inject an external or internal 10 MHz tone onto the broadband feed.





SRY-G2S-TB3-317-xxxxxx SRY-G2S-RB3-318-xxxxxx

			RF Parameters			
Model Numbers		SRY-G2S-TB3-317		SRY-G2S-RB3-318		
Frequency Range		50 - 3150 MHz				
Flatness (dB) (Fixed gain mode, input -10dBm, output -10dBm with 1m fibre link)	850 - 2150MHz	±1.5				
	500 - 3150MHz	±2.0				
	Any 36MHz	±0.25				
Output AGC Flatness (dB) (With input -10 to -40dBm)	200 - 2450MHz	±2.0				
	50 - 200MHz	±3.0				
	2450 - 3150MHz	±2.5				
Return Loss (db)	50ohm SMA	14 typical, 10 minimum (50 - 200MHz)	18 typical, 14 minimum (200 - 3150MHz)	18 typical, 14 minimum		
	50ohm BNC	14 typical, 10 minimum (50 - 200MHz)	18 typical, 14 minimum (200 - 3150MHz)	18 typical, 14 minimum		
	75ohm BNC	14 typical, 10 minimum (50 - 2450MHz)	8 minimum (2450 - 3150MHz)	16 typical, 12 minimum (50 - 2450MHz)	8 minimum (2450 - 3150MHz)	
	75ohm F-type	14 typical, 10 minimum (50 - 2450MHz)	8 minimum (2450 - 3150MHz)	16 typical, 12 minimum (50 - 2450MHz)	8 minimum (2450 - 3150MHz)	
Gain Setting Modes		Manual Gain Control (MGC), Automatic Gain Control (AGC), Fixed Gain (FG)				
Manual Gain Range		60dB, in 0.5dB steps (The MGC gain mode allows link optimisation for better Noise or Distortion performance)				
Monitor Port SMA 50 Ohm Connector		-20dBc +/-3dB				
OIP3 Test condition: 1m fibre, 10dB gain, -22dBm tones, -10dBm RF o/p total power	850 - 2150MHz	23 dBm typical, 20 dBm worst case				
	50 - 3150MHz	20 dBm typical, 17 dBm worst case				
CNR (in any 36MHz)		-50 dB typical, -45 dB worst case Test condition: 1m fibre, 10dB gain, -23dBm tones, -10dBm RF o/p total power				
Noise Figure		9 dB typical, 12 dB worst case Test condition: 1m fibre, -10dBm RF i/p power, -10dBm RF o/p total power				
Group Delay Variation		<2ns over full band. <0.5ns over any 36MHz.				
SFDR Test condition: 1m fibre, 10dB gain, -23dBm tones, -10dBm RF o/p total power	850 - 2150MHz	107 dB/Hz2/3 typical. 102 dB/Hz2/3 minimum.				
	50 - 3150MHz	103 dB/Hz2/3 typical. 98 dB/Hz2/3 minimum.				
RF Signal Range		Input: 70 to -10dBm (total power) operational i/p range Output: -70dBm to -10dBm (total power) o/p range available under all i/p conditions (Specifications are only 'typical' between -60 & -70dBm unless otherwise detailed)				
Max RF Input		16dBm total power. Damage level, NOT operational				
10MHz Level at Output		-10 to +6 dBm, user settable via the chassis. Accuracy ±2.0 dB				
10MHz Isolation			-40 dB, between mod	dules in same chassis.		



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Optical Parameters						
Model Numbers	SRY-G2S-TB3-317	SRY-G2S-RB3-318				
Laser Type	DFB. Optical isolator for improved performance	-				
Optical Wavelength	1310 ± 10 nm	1100 to 1650nm. (Optimised for 1310nm and 1550nm)				
Optical Power	Output: 4.5 ±2.5 dBm (3.8 dBm typical)	Input: 0 to 4.5dBm (10 dBm max.)				
Optical Connectors	FC/APC , SC/APC, E2000/APC, Single mode fibre. Use angle polish connectors only					
Module Dimensions	19 x 38 x 250 mm. 0.2kg. GENUS 1U series mountable.					
LNB Power	18/13V ± 5%, 500mA max	-				
Power Consumption	15W typical (with 18V 500mA LNB power)	4W typical				
Module Swap		swap				
MTBF	>200,000 hours					
Spec. Version	0.3	1.0				

LNB Power				
Number of Modules Fitted	Total Power Available for LNB Powering at 18V			
16	115W			
14	120W			
≤13	Limited by module specifications			

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy. Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.